

CR 1
passage includes an air introduction port 34. The air introduction port 34 includes an upper end portion 35. The downwardly inclined end 21n of the cooling heat exchanger is positioned lower than the upper end portion 35 of the air introduction port 34. The cooling heat exchanger also is shown having a higher side 21o and a lower side 21p. {--

In the Claims:

Cancel claims ~~1~~ - ~~5~~ and ~~13~~ without prejudice or disclaimer.

Please amend claims 6 - 9, 11, 12 and 14 as follows:

6. (Twice Amended) An air conditioner for an automotive vehicle having a passenger compartment, said air conditioner comprising:

CR 1
a case forming an air passage through which air is blown into the passenger compartment;

a blower for blowing air in said case into the passenger compartment;

a cooling heat exchanger for cooling air blown from said blower, said cooling heat exchanger being slightly inclined relative to a horizontal surface by an inclination angle;

a heating heat exchanger for heating air from said cooling heat exchanger so that temperature of air to be blown into the passenger compartment is conditioned, said heating heat exchanger being disposed approximately horizontally at an upper side of said cooling heat exchanger; and

a mode switching member for selectively switching flow direction of the conditioned air blown into the passenger compartment, wherein

said cooling heat exchanger includes a plurality of tubes through which refrigerant flows, and a plurality of corrugated fins disposed between adjacent said tubes; and

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disposed to be shifted
said blower is offset from said cooling heat exchanger to a side of said cooling heat exchanger.

D3
7. (Amended) An air conditioner according to claim 6, wherein said blower and said cooling heat exchanger are disposed in such a manner that air is approximately horizontally blown from said blower toward said cooling heat exchanger, and wherein air is introduced into said cooling heat exchanger from below the cooling heat exchanger.

D4
8. (Twice Amended) An air conditioner according to claim 6, wherein:
air is blown from said blower in an air-blowing passage;
said cooling heat exchanger is disposed on an extending line of said air-blowing passage;
said cooling heat exchanger is inclined such that the cooling heat exchanger includes a higher side and a lower side; and
said cooling heat exchanger is arranged in the air passage such that air blown by the blower is directed through the air passage from the blower toward the higher side of the cooling heat exchanger and subsequently toward the lower side of the cooling heat exchanger, and such that air blown by the blower passes upwardly through the cooling heat exchanger.

D5
9. (Amended) An air conditioner according to claim 6, wherein said tubes extend in a direction approximately equal to a direction of air blown in said air-blowing passage from the blower to the cooling heat exchanger.

D6
11. (Amended) An air conditioner according to claim 6, wherein:
said case has a drain port for draining condensed water from said cooling heat exchanger to an outside of said case; and

said drain port is provided at a bottom-most portion of said case.

12. (Amended) An air conditioner according to claim 6, wherein:

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D6*
said case has a first opening for blowing air toward an upper side of the passenger compartment, a second opening for blowing air toward a lower side of the passenger compartment, and a third opening for blowing air toward a windshield; and

said mode switching member is disposed at an upper side of said heating heat exchanger to selectively open and close said first opening, said second opening and said third opening.

14. (Amended) An air conditioner for a vehicle having a passenger compartment, said air conditioner comprising:

a case forming an air passage through which air flows into the passenger compartment;

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a cooling heat exchanger for cooling air, said cooling heat exchanger being slightly inclined relative to a horizontal surface by an inclination angle;

a heating heat exchanger for heating air from said cooling heat exchanger so that temperature of air flowing into the passenger compartment is conditioned, said heating heat exchanger being disposed approximately horizontally at an upper side of said cooling heat exchanger; and

a mode switching member for selectively switching flow direction of the conditioned air flowing into the passenger compartment, wherein

said cooling heat exchanger includes a plurality of tubes through which refrigerant flows, and a plurality of corrugated fins disposed between adjacent said tubes; and

said cooling heat exchanger is disposed in said case so that air is introduced into a space under said cooling heat exchanger from a side of said cooling heat exchanger.

See the attached Appendix for the changes made to effect the above claims.

Please add the following new claims:

15. (New) An air conditioner according to claim 11, wherein said drain port is disposed below a downwardly inclined end of said cooling heat exchanger.
16. (New) An air conditioner according to claim 6, wherein air is blown from said blower in an air-blowing passage between said blower and said cooling heat exchanger, said air-blowing passage between said blower and said cooling heat exchanger is approximately horizontal.
17. (New) An air conditioner according to claim 6, wherein air is blown from said blower in an air-blowing passage between said blower and said cooling heat exchanger, and said tubes and said corrugated fins extend in a direction approximately equal to a direction of air blown in said air-blowing passage from said blower to said cooling heat exchanger.
18. (New) An air conditioner according to claim 6, wherein said blower is laterally spaced apart from said cooling heat exchanger.
19. (New) An air conditioner according to claim 6, wherein said cooling heat exchanger includes a higher side and a lower side, and said blower includes a centrifugal fan; wherein the centrifugal fan is offset from said cooling heat exchanger to the higher side of said cooling heat exchanger, and the centrifugal fan is laterally spaced apart from said higher side of said cooling heat exchanger such that the centrifugal fan and the cooling heat exchanger

do not overlap in vertical planes.

20. (New) An air conditioner according to claim 19, wherein the centrifugal fan and the lower side of the cooling heat exchanger, respectively, are vertically offset a predetermined distance from said heating heat exchanger.

21. (New) An air conditioner for a vehicle having a passenger compartment, said air conditioner comprising:

a case defining an air passage through which air is blown into the passenger compartment;

a blower for blowing air in said case into the passenger compartment;

a cooling heat exchanger for cooling air blown from said blower, said cooling heat exchanger being slightly inclined relative to a horizontal surface by an inclination angle;

a heating heat exchanger for heating air from said cooling heat exchanger so that temperature of air blown into the passenger compartment is conditioned, said heating heat exchanger being disposed approximately horizontally above said cooling heat exchanger; and

a mode switching member for selectively switching flow direction of the conditioned air blown into the passenger compartment, wherein:

said cooling heat exchanger includes a plurality of tubes through which refrigerant flows, and a plurality of corrugated fins disposed between adjacent said tubes;

said blower is offset from said cooling heat exchanger to a side of said cooling heat exchanger, air is blown from said blower in an air-blowing passage, and said cooling heat exchanger is disposed on an extending line of said air-blowing passage;

said air-blowing passage includes an air introduction port from which air blown from

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said blower is introduced into a space under said cooling heat exchanger; and

said cooling heat exchanger is inclined to have a downwardly inclined end positioned lower than an upper end portion of said air introduction port.

22. (New) An air conditioner according to claim 21, wherein:

said blower includes a centrifugal fan including a top and a bottom; and

said downwardly inclined end of said cooling heat exchanger is positioned lower than said top of said centrifugal fan.

23. (New) An air conditioner according to claim 21, wherein:

said case includes a scroll casing;

said blower includes a centrifugal fan disposed within said scroll casing; and

said scroll casing has a bell mouth shaped inlet disposed at the top of said scroll casing, from which air is sucked therein.

24. (New) A vehicle comprising:

a passenger compartment, and

an air conditioner comprising:

a case forming an air passage through which air is blown into the passenger compartment;

a blower for blowing air in said case into the passenger compartment;

a cooling heat exchanger for cooling air blown from said blower, said cooling heat exchanger being slightly inclined relative to a horizontal surface by an inclination angle;

a heating heat exchanger for heating air from said cooling heat exchanger so that temperature of air to be blown into the passenger compartment is conditioned, said heating heat

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exchanger being disposed approximately horizontally at an upper side of said cooling heat exchanger; and

a mode switching member for selectively switching flow direction of the conditioned air blown into the passenger compartment, wherein

said cooling heat exchanger includes a plurality of tubes through which refrigerant flows, and a plurality of corrugated fins disposed between adjacent said tubes; and

said blower is offset from said cooling heat exchanger to a side of said cooling heat exchanger.

25. (New) A vehicle comprising:

a passenger compartment, and

an air conditioner comprising:

a case forming an air passage through which air flows into the passenger compartment;

a cooling heat exchanger for cooling air, said cooling heat exchanger being slightly inclined relative to a horizontal surface by an inclination angle;

a heating heat exchanger for heating air from said cooling heat exchanger so that temperature of air flowing into the passenger compartment is conditioned, said heating heat exchanger being disposed approximately horizontally at an upper side of said cooling heat exchanger; and

a mode switching member for selectively switching flow direction of the conditioned air flowing into the passenger compartment, wherein

said cooling heat exchanger includes a plurality of tubes through which refrigerant flows, and a plurality of corrugated fins disposed between adjacent said tubes; and

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said cooling heat exchanger is disposed in said case so that air is introduced into a space under said cooling heat exchanger from a side of said cooling heat exchanger.

26. (New) An air conditioner for an automotive vehicle having a passenger compartment, said air conditioner comprising:

a case forming an air passage through which air is blown into the passenger compartment;

a blower for blowing air in said case into the passenger compartment;

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a cooling heat exchanger for cooling air blown from said blower, said cooling heat exchanger disposed in said case within the air passage, said cooling heat exchanger being slightly inclined relative to a horizontal surface by an inclination angle, such that said cooling heat exchanger includes a higher side and a lower side, said cooling heat exchanger including a plurality of tubes through which refrigerant flows and a plurality of fins;

said cooling heat exchanger being arranged in the air passage such that air blown by the blower is directed through the air passage from the blower toward the higher side of the cooling heat exchanger and subsequently toward the lower side of the cooling heat exchanger, and such that air blown by the blower passes upwardly through the cooling heat exchanger; and

a heating heat exchanger for heating air from said cooling heat exchanger so that temperature of air to be blown into the passenger compartment is conditioned, said heating heat exchanger being disposed approximately horizontally at an upper side of said cooling heat exchanger.

27. (New) An air conditioner according to claim 26, wherein said fins are corrugated, and said corrugated fins are disposed between adjacent said tubes.

28. (New) An air conditioner according to claim 6, wherein:
air is blown from said blower in an air-blowing passage between said blower and said cooling heat exchanger;
the air-blowing passage is provided approximately horizontally; and
said cooling heat exchanger is disposed on an extending line of the air-blowing passage.

29. (New) An air conditioner according to claim 28, wherein air from the air-blowing passage is introduced into a space under the cooling heat exchanger.

30. (New) An air conditioner according to claim 14, further comprising a blower for blowing air in said case into the passenger compartment, wherein:

air is blown from said blower in an air-blowing passage between said blower and said cooling heat exchanger;

the air-blowing passage is provided approximately horizontally; and
said cooling heat exchanger is disposed on an extending line of the air-blowing passage.

31. (New) An air conditioner according to claim 30, wherein air from the air-blowing passage is introduced into a space under the cooling heat exchanger.

32. (New) An air conditioner according to claim 21, wherein:
air is blown from said blower in said air-blowing passage between said blower and said cooling heat exchanger;

the air-blowing passage is provided approximately horizontally; and
said cooling heat exchanger is disposed on an extending line of the air-blowing passage.

33. (New) An air conditioner according to claim 32, wherein air from the air-blowing passage is introduced into a space under the cooling heat exchanger.

34. (New) An air conditioner according to claim 24, wherein:
air is blown from said blower in an air-blowing passage between said blower and said cooling heat exchanger;
the air-blowing passage is provided approximately horizontally; and
said cooling heat exchanger is disposed on an extending line of the air-blowing passage.

35. (New) An air conditioner according to claim 34, wherein air from the air-blowing passage is introduced into a space under the cooling heat exchanger.

36. (New) An air conditioner according to claim 25, further comprising a blower for blowing air in said case into the passenger compartment, wherein:

air is blown from said blower in an air-blowing passage between said blower and said cooling heat exchanger;

the air-blowing passage is provided approximately horizontally; and
said cooling heat exchanger is disposed on an extending line of the air-blowing passage.

37. (New) An air conditioner according to claim 36, wherein air from the air-blowing passage is introduced into a space under the cooling heat exchanger.

38. (New) An air conditioner according to claim 26, wherein:
air is blown from said blower in an air-blowing passage between said blower and said cooling heat exchanger;

the air-blowing passage is provided approximately horizontally; and
said cooling heat exchanger is disposed on an extending line of the air-blowing passage.

39. (New) An air conditioner according to claim 38, wherein air from the air-blowing passage is introduced into a space under the cooling heat exchanger.